

Work Order ID 149001

Thursday, July 14, 2016 1:26:27 PM

149001

Page 1

Item ID: D3628-1

Accept

Revision ID:

N9000040100

Setup Start *NS1*

Item Name: Washer. Cupped

Stop *NS2*

Start Date: 7/14/2016 Start Qty: 250.00

250

Required Date: 7/28/2016 Req'd Qty: 250.00

250

Reference:

Cust Item ID:

Customer:

Approvals: Process Plan:

DAS
21
9-89

Date: JUL 14 2016

Tooling:

Date:

Run Start *NR1*

QC:

Date:

SPC (Y/N):

Date:

Stop *NR2*

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID Tool # Plan Code Accept Qty Reject Qty Reject Number Insp. Stamp

Draw.Nbr

Revision Nbr

D3628

C

100

0.00

100

Purchasing

PURCHASING

Memo

0.00

Issue P/O: 33055

Email or Ship DXF file to vendor

Laser Cut D3628-1 flat pattern and form as per Dwg D3628

Possible Supplier: GFI

Material release note is required

250

JUL 15 2016

DAS
13
9-89

110

110

Packaging

Receive & Inspect for Damage & Mat'l Certs

0.00

Memo

0.83

Ensure material certification is attached

232 X SP 16-8-10

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐																																															
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Work Order ID 149001

Thursday, July 14, 2016 1:26:27 PM

149001

Page 2

Item ID: D3628-1

Accept

Revision ID:

N9000040100

Setup Start *NS1*

Item Name: Washer. Cupped

Stop *NS2*

Start Date: 7/14/2016 Start Qty: 250.00

250

Cust Item ID:

Required Date: 7/28/2016 Req'd Qty: 250.00

250

Customer:

Reference:

Approvals: Process Plan:

Date:

Tooling:

Date:

Run Start *NR1*

QC:

Date:

SPC (Y/N):

Date:

Stop *NR2*

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID Tool # Plan
Code Accept Reject Reject Insp.
Qty Qty Number Stamp

120

QC6- Inspect dimensions to drawing

0.00

120

QC

Memo

0.00

Quality Control

232

38
9-89

AUG 12 2016

130

Identify as per dwg & Stock Location 5 to 46

0.00

130

Packaging

Memo

0.42

Packaging

cont
232 PC

AUG 12 2016

140

QC21- Final Inspection - Work Order Release

0.00

140

QC

Memo

4.17

Quality Control

DAS
21
9-89

AUG 15 2016

DAS
21
9-89

AUG 15 2016

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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Picklist Print

Thursday, July 14, 2016 1:26:33 PM

Page 1

Work Order ID: 149001

Parent Item: D3628-1

Parent Item Name: Washer, Cupped

149001

D3628-1

Start Date: 7/14/2016

Required Date: 7/28/2016

Start Qty: 250.00

Required Qty: 250.00

Comments: IPP Rev:A New Issue 07-05-28 JLM
IPP Rev:B Removed Powder 07-07-11 JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D3628-1P		Purchased		No		110	Each	0.0000	1	250			
D3628-1P													
Cupped Washer													

**

232 SP168-10

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

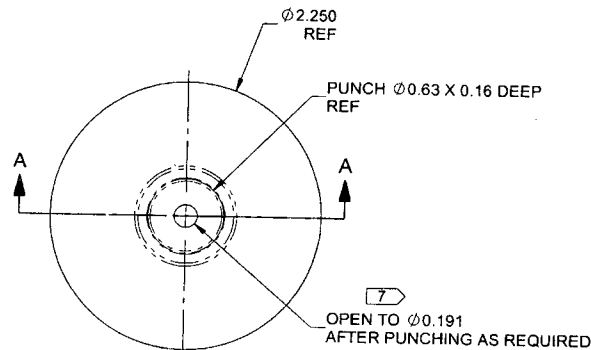
QA Closed: _____ Date: _____

Work Order update only ☐

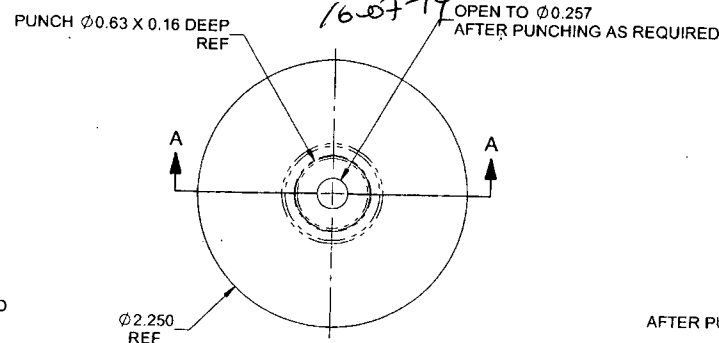
Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
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Misidentified ☐	Past Due ☐																																																																

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER

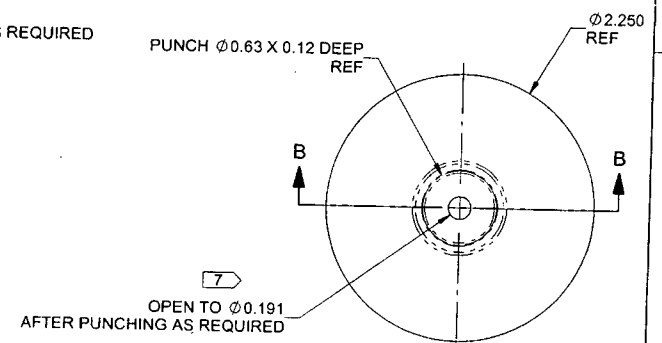
NOV 149001 MLJ
16-07-14



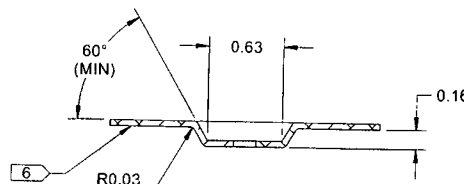
D3628-1 CUPPED WASHER



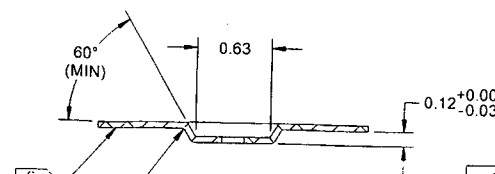
D3628-3 CUPPED WASHER



D3628-5 CUPPED WASHER



SECTION A-A
(D3628-1/3)

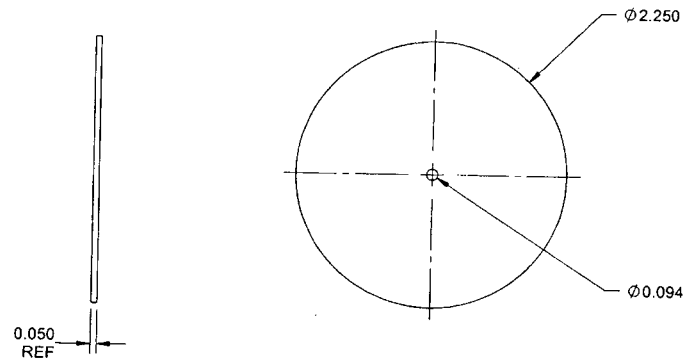


SECTION B-B
(D3628-5 ONLY)

- NOTES:
- 1) MATERIAL: MADE FROM D3628-1F
 - 2) FINISH: NONE
 - 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
 - 4) ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK ALL SHARP EDGES 0.005 TO 0.010 MAX
 - 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.5
 - 7) WHEN DRILLING OUT THE CENTRE HOLE AFTER PUNCHING, ENSURE THAT THE HOLE IS DRILLED CONCENTRIC TO THE CUPPED AREA, WITHIN 0.03
 - 8) WEIGHT: 0.02 lbs

RELEASE
2012-05-07

REV.	DESCRIPTION	BY	DATE
C	UPDATE DWG TO CURRENT STD; ADD -5, ZN C1-1.	DC	12.04.19
B	REMOVE POWDER COAT	CB	07.07.09
A	NEW ISSUE	CB	07.06.08
DESIGN	DC	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA DRAWING NO. D3628 CUPPED WASHER REV. C SHEET 1 OF 2 SCALE NTS	
DRAWN	DC		
CHECKED	DC		
MFG. APPR.	FE		
APPROVED	MD		
DE APPR.	MD		
DATE	12.04.19	COPYRIGHT © 2007 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL. ANY DISSEMINATION OF THIS DOCUMENT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	



D3628-1F FLAT PATTERN

RELEASED
2012-05-07
MP

NOTES:

- 1) MATERIAL: AISI 304/316 STAINLESS STEEL SHEET, 18 GAUGE (0.050 THICK)
ANNEALED, 2B FINISH
PER MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR ASME SA240
REF DART SPEC M304S18GA
- 2) FINISH: NONE
- 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED
- 5) BREAK ALL SHARP EDGES 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: 0.02 lbs

DESIGN	DC	DART AEROSPACE LTD	
DRAWN	DC	HAWKESBURY, ONTARIO, CANADA	
CHECKED	EB	DRAWING NO.	REV. C
MFG. APPR.	EB	D3628	SHEET 2 OF 2
APPROVED	NO	TITLE	SCALE
DE APPR.	HA	CUPPED WASHER	NTS
DATE	12.04.19	COPYRIGHT © 2007 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND NOT BE LOANED, REPRODUCED OR COPIED IN ANY MANNER WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD NOT TO BE USED FOR ANY PURPOSE, OR LOANED OR CONVAINGED TO ANY OTHER PERSON WITHOUT	



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO33055**

Purchase Order Date 7/15/2016

PO Print Date 7/19/2016

Page Number 1 of 2

Order From :

VC-GFI001

Ship To : DART AEROSPACE LTD

GFI
180 AVENUE LABROSSE
POINTE CLAIRE, QC H9R 1A1
CA

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 514 630 4877

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

CAD

FOB

FCA - (Free Carrier)

Ship To Contact

Ship To Phone

Ship Via: FedEx PI collect

Ship Acct:

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	D3602-1P AS PER DWG D3602 REV. B B149000	Angle	7/18/2016 Yes 8/18/2016	FN	12.00 Each	\$62.00	\$744.00

Line Total: \$744.00

2	D3628-1P AS PER DWG D3628 REV. C B149001	Cupped Washer	7/18/2016 Yes 8/18/2016		232.00 Each	\$2.42	\$560.51
---	--	---------------	-------------------------------	--	----------------	--------	----------

Line Total: \$560.51

Note:

7/19/2016



180 AVENUE LABROSSE
POINTE-CLAIRE, QC, CANADA H9R 1A1
TÉL.:(514) 630-4877 - FAX:(514) 630-4849

GFI est une division de Thomas & Betts Limitée / GFI is a division of Thomas & Betts Limited



BON DE LIVRAISON / SHIPPING MEMO

DATE DE LIVRAISON / SHIPPING DATE			N° DE BON DE LIVRAISON / SHIPPING MEMO NO	PAGE
JR	MO	AN		
08	08	16	0584809	1/1



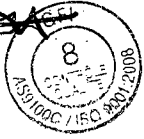
VENDU À / SOLD TO

EXPÉDIÉ À / SHIP TO

DART AEROSPACE LTD
1270 ABERDEEN ST.
HAWKESBURY, ON
K6A 1K7

DART AEROSPACE LTD
1270 ABERDEEN ST.
HAWKESBURY, ON
K6A 1K7

CODE DE CLIENT / CUSTOMER CODE	N° DE CONTRAT / JOB NO	VOTRE N° DE COMMANDE / YOUR PURCHASE ORDER NO	EXPÉDIÉ PAR / SHIP VIA
DART GFI-0299	0321005	PO33055	

QUANTITÉ / QUANTITY	N° DE PIÈCE / PART NO	DESCRIPTION
232	D3628-1P	CUPPED WASHER
		ITEM 2 C OF C REQ'D FAI REQ'D
0290654-001 36 pcs 0314591-001 50 pcs MFG. JOB# 0317154-001 QTY 146 pcs DUE DATE: 15 August 2016 		

SP/6-f-10.

EXPÉDITEUR / SHIPPER

REÇU PAR / RECEIVED BY

DATE

TOUTES LES RÉCLAMATIONS DOIVENT ÊTRE FAITES EN DEDANS DE 5 JOURS DE LA RÉCEPTION.
ALL CLAIMS MUST BE MADE WITHIN 5 DAYS OF RECEIPT OF GOODS.

CERTIFICATE OF COMPLIANCE
CERTIFICAT DE CONFORMITE



Membre de / A Member of **Thomas&Betts**

180 LABROSSE AVENUE
POINTE CLAIRE, QC
H9R 1A1

DART AEROSPACE LTD
1270 ABERDEEN ST.
HAWKESBURY, ON K6A 1K7

CERTIFICATE NO. 18 OUR JOB NO 0321005 SHIPPING MEMO 0584809

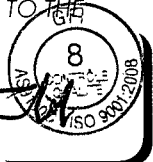
ITEM	QUANTITY	PURCHASE ORDER	PART NUMBER	REV	NAME	DWG ISSUE
--	222 PCS	PO33055	D3628-1P	C	CUPPED WASHER	C
MATERIAL		SUPPLIED BY		MAT. REL. NO.		
AMS 5513 304 ANN		TW METALS / NORTH AMERICAN STAINLESS		H/N W1D6, H/N V3W1 AND H/N L2T8		

	PROCESS	PROCESSOR	RELEASE NOTE #
1	FIRST ARTICLE INSPECTION REPORT ON FILE	GFI	N/A
2	REF. GFI MANUFACTURING JOB NUMBER 0317954-001 (146 PCS), 0314591-001 (50 PCS) AND 0290654-001 (36 PCS).		
3			
4			
5			
6			
7			
8			
9			

WE HEREBY CERTIFY ALL THE PARTS COVERED BY THIS CERTIFICATE HAVE BEEN MANUFACTURED FROM MATERIAL SUPPLIED ON RELEASE NOTE SHOWN ABOVE AND THAT ALL PARTS HAVE BEEN INDIVIDUALLY INSPECTED AND CONFORM TO THE DRAWINGS AND PURCHASE ORDER REFERENCED ABOVE.

DATE 08 AUGUST 2016

G.F.I. Q.C. REP. [Signature]





1 Wright Avenue - Rear
LeRoy NY 14482
Tel: 585-768-5600
FAX: 15857685601

CERTIFICATE OF COMPLIANCE

Your Order Number: 0087456

Our delivery receipt Number: 12104780

Date: 5/24/16

This is to certify that the material shipped against the above order on the above delivery receipt, consisting of:

Quantity: 85.000 LB

Line Number: 1

Grade: 304 A AMS5513 .050

Part #: TS050481204A

Heat Number: WID6

Specification: _____

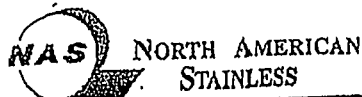
Complies in all Respects with the item description



By: _____

Janice Clark

Authorized Test Department Clerk



METALLURGICAL TEST REPORT

6870 Highway 42 East
Ghent, KY 41045-9615
(502) 347-6000

Certificate: 90832 01
Customer: 0018 001
Mail To:
UNITED PERFORMANCE METALS
3475 SYMMES ROAD
HAMILTON, OH 45015

Ship To:
UNITED PERFORMANCE METALS
3475 SYMMES ROAD
HAMILTON, OH 45015

Date: 9/01/2015 Page: 1

Steel: 302/304/304L

Finish: 2B

Corrosion: ASTM A262/14; 180Bend-OK

Your Order: 01027290

NAS Order: AN 0666814 01

PRODUCT DESCRIPTION:

S/S COIL, C.R. ANNEALED & PICKLED; UNS 30400/30403/30200
ASTM A240/15a, A480/14b, A666/15; ASME SA240/13, SA480/13, SA666/13
CHEM ONLY ON FOLLOWING ASTM: A276/13, A478/13a, A484/13a, A312/13
CHEM ONLY ON FOLLOWING ASME: SA312/13, SA479/13
AMS 5511H/5513J/5516P MARK; MIL-S-5059D AMD3 (X CRN MEAS); MIL-4043B
NACE MR0175/ISO 15156-3:2009 A, MR0103/07; QQS766D-A X MAG PERM
MIN. SOLUTION ANNEAL TEMP 1900F, WATER QUENCHED
FMT 304L/304/302; AMS 5511H

REMARKS:

Mat'l is Free of Mercury Contamination. No weld repairs.
EN 10204:2004 3.1; RoHS 1 & 2 Compliant
Material is Free of Radioactive Contamination
Steel Making Process: EAF, AOD, & Cont. Casting
Product Mfg. by a Quality Mgt. Sys. in Conf. w/ISO 9001
*Melted & Manufactured in the USA; Mat'l is DFARS Compliant

Product ID	Supplier ID	Thickness	Width	Weight	Length	Mark	Pieces	COMMODITY CODE
05W1D6 B	* 05W1D6	.0500	48.0000	27.770	COIL	3349.8	11	1 00624

Lab Accreditation Bureau, ISO/IEC 17025, Certificate# L2323

CHEMICAL ANALYSIS CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan) Chemical analysis per ASTM A751/08

HEAT Supplier#	CM	C %	CR %	CU %	MN %	MO %	N %	NI %	P %	S %
W1D6 W1D6	US	.0149	18.1560	.4340	1.7420	.4135	.0811	8.0375	.0315	.0010
Lab Check:		.0147	18.1547	.4238	1.7604	.4068	.0807	7.9402	.0294	.0044
SI %										
		.2645								
Lab Check:		.2242								

MECHANICAL PROPERTIES

Product Id	Supplier Id	UTS KSI	20C .2% YS KSI	20C ELONG %-2"	% Hard RB	Tail Hard	Grain No.	D For F.N.
05W1D6 B	05W1D6	F T 97.34	51.72	46.12	88.50	86.50	9.00	3.53

UPMAC
Review/Approved
Specialist
By: *PL* 9/23/15
#Pages: 1

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical
Dept. Mgr.

Abhijeet Bhawe

9/01/2015

UNITED PERFORMANCE METALS
This is to certify that in accordance with the records in
our files the material shipped on your purchase order
conforms to the following.

Size: 48 X 120
P.O.: D12017071
Part: NAS GHENT, KY
Sales #: 01272247
Quantity: 1

Description: 304/304L, 048, 052 AMS5513
Customer: GFI, Incorporated
Shipped: 05/08/2016
Heat: W1D6

Drive Perfect
Irina Garrett

DP12-001 REV 0 Bombardier Certificate of Compliance
TW Metals District Procedure

Revision: 0

Revision Date: 04-03-00

Superseding: Initial

Page: 1 of 1

CERTIFICATE OF COMPLIANCE

FRAUD AND FALSIFICATION STATEMENT

The recording of false, fictitious, or fraudulent statements or entries on this document may be punished as a felony under federal statutes including federal law. Title 18 chapter 47.

CERTIFICATE OF COMPLIANCE

This certificate of compliance certifies that the material supplied on the purchase order number below complies in all respects with the material description and procurement specifications.

MERCURY FREE STATEMENT

We certify that mercury, radium, or alpha bearing instruments and / or equipment which might cause contamination have not been used in the manufacture, fabrication, assembly or testing of any material supplied by TW Metals Inc. Switches, glass thermometers, standard cell and other items containing the above elements may be used, but they will be located so as not to constitute a contamination hazard.

CUSTOMER NAME: GFI, Inc
PURCHASE ORDER No. 0087145
ITEM No. 0001 SHIPPER INVOICE No. 12-104282
MATERIAL: 304 Ann SPECIFICATION: Ams 5513
MANUFACTURING MILL: NAS
SIZE: 050 HEAT / LOT No. V 3W1
PART No. TS 05048X96 4A QUANTITY: 1 pc
TEST DEPARTMENT CLERK Janice Clark

AUTHORITY

Joe Schab
Director of Quality Assurance



This document is maintained as a Controlled Document only in the TW Metals computer system. Once printed, this document immediately becomes Uncontrolled and is subject to change at any time and without notice.

Certificate: 61219 02

Mail To:
UNITED PERFORMANCE METALS
3475 SYMMES ROAD
HAMILTON, OH 45015

Ship To:
UNITED PERFORMANCE METALS
3475 SYMMES ROAD
HAMILTON, OH 45015

Date: 5/21/2015 Page: 1

Steel: 302/304/304L

Finish: 2B

Corrosion: ASTM A262/10;180Bend-OK

Your Order: 01026956

NAS Order: AN 0658205 01

PRODUCT DESCRIPTION:

S/S COIL, C.R. ANNEALED & PICKLED; UNS 30400/30403/30200
ASTM A240/13c, A480/13, A666/10; ASME SA240/13, SA480/13, SA666/13
CHEM ONLY ON FOLLOWING ASTM: A276/13, A479/13a, A484/13a, A312/13
CHEM ONLY ON FOLLOWING ASME: SA312/13, SA479/13
AMS 5511H/5513J/5516P XMRK; MIL-S-5059D AMD3 (X CRN MEAS); MIL-4043B
NACE MR0175/ISO 15156-3:2009 A, MR0103/07; QQS766D-A X MAG PERM
MIN. SOLUTION ANNEAL TEMP 1900F, WATER QUENCHED
FMI 304L/304/302; AMS 5511H

REMARKS:

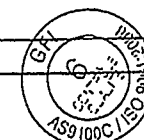
Mat'l is Free of Mercury Contamination. No weld repairs.
EN 10204:2004 3.1; RoHS 1 & 2 Compliant
Material is Free of Radioactive Contamination
Steel Making Process: EAF, AOD, & Cont. Casting
Product Mfg. by a Quality Mgt. Sys. in Conf. w/ISO 9001
*Melted & Manufactured in the USA; Mat'l is DFARS Compliant

Product ID	Supplier ID	Thickness	Width	Weight	-----Length-----	Mark	Pieces	COMMODITY CODE
06V3W1 A	* 06V3W1	.0500	48.0000	28,210	COIL	3402.8 11	1	00624

Lab Accreditation Bureau, ISO/IEC 17025, Certificate# L2323

CHEMICAL ANALYSIS CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan) Chemical analysis per ASTM A751/08

HEAT Supplier#	CM	C %	CR %	CU %	MN %	MO %	N %	NI %	P %	S %
V3W1 V3W1	US	.0212	18.0265	.4075	1.7440	.3485	.0861	8.0055	.0310	.0010
Lab Check:		< .0001	17.8462	.3967	1.7573	.3478	< .0001	7.8853	.0281	< .0001
		SI %								
Lab Check:		.2880								
		.2371								



MECHANICAL PROPERTIES

Product Id	Supplier Id	1 d o i c r	UTS KSI	20C .2% YS KSI	20C ELONG %-2"	% Hard RB	Tail Hard	Grain No.	D Fer F.N.
06V3W1 A	06V3W1	F T	95.35	49.97	48.60	86.00	87.00	10.00	2.39

UPMQC
Review / Approved
Specs: *RLC*

By: *ST* Date: *5/27/15*
#Pages: *1*

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical
Dept. Mgr.

Abhijeet Bhawe

5/21/2015

UNITED PERFORMANCE METALS
This is to certify that in accordance with the records on
our files the material shipped on your purchase order
conforms to the following:

Size: 48 X 36
P.O.: D12016909
Part#: NORTH AMERICAN
STAINLESS
Sales #: 01269523
Quantity: 1

Description: 304/304L .048-.052 AMS5513/5511
Customer: GFL Incorporated
Shipped: 02/19/2016
Heat: V3W1

Irina Garrett
Irina Garrett



235 TUBEWAY
CAROL STREAM IL 60188
Tel: 630-690-0110
FAX: 16306902105

CERTIFICATE OF COMPLIANCE

Your Order Number: 0084192

Our delivery receipt Number: 80634696

Date: 5/21/14

This is to certify that the material shipped against the above order on the above delivery receipt, consisting of:

Quantity: 64.512 LB

Line Number: 1

Grade: 304-2B S/S SHEET .048

Part #: TS05048X954A

Heat Number: L2T8

Specification:

Complies in all respects with the item description.



BY: Janice Clark
Authorized Test Department Clerk

Certificate: 923703 03
Customer: 0305 001
Mail To:
PHOENIX METALS COMPANY
P.O. BOX 805
4685 BUFORD HIGHWAY
NORCROSS, GA 30091

Ship To:
PHOENIX METALS COMPANY
P.O. BOX 805
4685 BUFORD HIGHWAY
NORCROSS, GA 30091

Date: 2/27/2014 Page: 1

Steel: 304

Finish: 2B

Your Order: 189666

NAS Order: AN 0610194 01

Corrosion: ASTM A262/10 A/180 Read-OK

PRODUCT DESCRIPTION:

STAINLESS STEEL COIL, C.R. ANNEALED & PICKLED; UNS 30400
ASTM A240/13a, A480/13, A666/10, ASME SA240/13, SA480/13, SA666/13
CHEM ONLY ON FOLLOWING ASTM: A276/13, A479/13a, A484/13a, A312/13
CHEM ONLY ON FOLLOWING ASME: SA312/13, SA479/13
AMS 5513J XMRK; MIL-S-5059D AMEND3 (X CROWN MEAS)
NACE MR0175/ISO 15156-3:2003 A, MR0103/07; QQS766D-A X MAG PERM
MIN. SOLUTION ANNEAL TEMP 1900F, WATER QUENCHED

REMARKS:

Mat'l is Free of Mercury Contamination. No weld repairs.
EN 10204:2004 3.1; RoHS 1 & 2 Compliant
Material is Free of Radioactive Contamination
NAS Steel Making Process: EAF, AOD, & Cont. Casting
Product Mfg. by a Quality Mgt. Sys. in Conf. w/ISO 9001
*Melted & Manufactured in the USA; Mat'l is DFARS Compliant

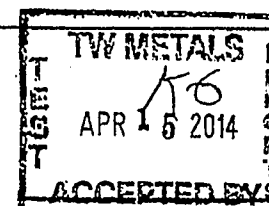
Product ID #	Coil #	Thickness	Width	Weight	-----Length-----	Mark	Pieces	COMMODITY CODE
04L2T8 B	* 04L2T8 B	.0460	48.0000	13,500	COIL	1787.7	11	1 3468

CHEMICAL ANALYSIS CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan) Chemical analysis per ASTM A751/08

HEAT	CM	C %	CR %	CU %	MN %	MO %	N %	NI %	P %	S %
L2T8	US	.0241	18.1830	.4295	1.8450	.3115	.0788	8.0285	.0315	.0010
SI %										
.3020										

MECHANICAL PROPERTIES

Product ID #	Coil #	1 d 0 1 C F	UTS KSI	.2% YS KSI	ELONG %-2"	Hard RB	Tail Hard
04L2T8 B	04L2T8 B	P T	90.65	42.44	57.72	82.00	64.00



NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical
Dept. Mgr.

ERIC HESS

2/27/2014



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO33055**

Purchase Order Date 7/15/2016

PO Print Date 7/15/2016

Page Number 1 of 2

Order From :

VC-GFI001

Ship To : DART AEROSPACE LTD

GFI
180 AVENUE LABROSSE
POINTE CLAIRE, QC H9R 1A1
CA

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 514 630 4877

Ship To Contact

Ship To Phone

Ship Via: FedEx PI collect

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

CAD

FOB

FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	D3602-1P AS PER DWG D3602 REV. B B149000	Angle	XXXXXX Yes XXXXXX 08/15/2016	FN	12.00 Each	\$62.00	\$744.00
Line Total:							\$744.00
2	D3628-1P AS PER DWG D3628 REV. C B149001	Cupped Washer	XXXXXX Yes XXXXXX 08/15/2016		250.00 Each	\$2.42	\$604.00
Line Total:							\$604.00

APPROVED

By Pedro at 12:15 pm, Jul 15, 2016

Note:

7/15/2016



180 Labrosse Av.
Pointe Claire, QC
H9R 1A1

TO:

DART AEROSPACE LTD
1270 ABERDEEN ST.
HAWKESBURY, ON
K6A 1K7

(CPO) PO#:

PO33055



(POI) ITEM#:

0002



PACKAGE COUNT:

1 OF 1

(PNR) PART NUMBER:

D3628-1P



(SHQ) QUANTITY:

232



PACKAGE WEIGHT:

(UNT) UNIT OF MEASURE:

EA



(PSN) PACKING SLIP #:

0584809



(COO) ORIGIN:

CA



(NAF) NAFTA:



(TRA) TRACEABILITY #:

0317954-001

